

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/549,782  
Source: PCT  
Date Processed by STIC: 10/03/2005

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 10/03/2005

PATENT APPLICATION: US/10/549,782

TIME: 14:29:44

Input Set : A:\Sequence listing - 09600-00035-US.txt

Output Set: N:\CRF4\10032005\J549782.raw

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3 <110> APPLICANT: Egorova, Ksenia
4     Antranikian, Garabed
5     Trauthwein, Harald
6     Verseck, Stefan
7     Dingerdissen, Uwe
9 <120> TITLE OF INVENTION: THERMALLY STABLE AMIDASES
11 <130> FILE REFERENCE: 09600-00035-US
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/549,782
C--> 13 <141> CURRENT FILING DATE: 2005-09-19
13 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/001430
14 <151> PRIOR FILING DATE: 2004-02-16
16 <150> PRIOR APPLICATION NUMBER: DE 103 12 842.5
17 <151> PRIOR FILING DATE: 2003-03-21
19 <160> NUMBER OF SEQ ID NOS: 4
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 9
25 <212> TYPE: PRT
26 <213> ORGANISM: Pseudonocardia thermophila
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35 <211> LENGTH: 14
36 <212> TYPE: PRT
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46 <211> LENGTH: 509
47 <212> TYPE: PRT
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56 Gly Arg Phe Gly Ile Pro Val Val Val Ile Cys Arg Thr Tyr His Asp
57      20      25      30
60 Leu Gly His Arg Pro Ala Arg Leu Val Glu Gln Gly Arg Arg Ala Val
61      35      40      45
64 Arg Gly Gly Gly Pro His Pro Ala Ala Ala Leu Val Asp Pro Pro Arg
65      50      55      60
68 Arg Arg Gly Arg Gln Ala Arg Arg Val Gly Gly Ala Asp Leu Asp His

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69 65          70          75          80
72 Arg Asn Leu Gly Gly Ala Ala Arg Arg Pro His Gly Arg Gly Gln Asp
73          85          90          95
76 Asn Val Ala Val Ala Gly Val Pro Met Met Asn Gly Ser Arg Thr Leu
77          100          105          110
80 Glu Gly Phe Val Pro Ala Glu Asp Ala Thr Val Val Ser Arg Leu Leu
81          115          120          125
84 Ala Ala Gly Ala Thr Ile Ala Gly Lys Ser Val Cys Glu Asp Leu Cys
85          130          135          140
88 Phe Ser Gly Gly Ser His Thr Ser Lys Pro Gly Thr Val His Asn Pro
89 145          150          155          160
92 Trp Asp Met Ser Arg Ser Ala Gly Gly Ser Ser Ser Gly Ser Gly Ala
93          165          170          175
96 Leu Val Ala Ala Gly Glu Val Asp Met Ala Ile Gly Gly Asp Gln Gly
97          180          185          190
100 Gly Ser Ile Arg Ile Pro Ser Ala Tyr Cys Gly Thr Val Gly His Lys
101          195          200          205
104 Pro Thr His Gly Leu Val Pro Tyr Thr Gly Gly Phe Pro Ile Glu Gln
105          210          215          220
108 Ser Ile Asp His Leu Gly Pro Ile Thr Arg Thr Val Ala Asp Ala Ala
109 225          230          235          240
112 Leu Met Leu Ser Val Ile Ala Gly Arg Asp Gly Leu Asp Pro Arg Gln
113          245          250          255
116 Pro Asp Val Val Glu Val Gln Asp Tyr Val Gly Ala Leu Ala Glu Ser
117          260          265          270
120 Val Ser Gly Leu Arg Ile Gly Val Leu Gln Glu Gly Phe Gly His Pro
121          275          280          285
124 Asn Ser Glu Pro Glu Val Asp Asp Thr Val Arg Ala Ala Val Gly Thr
125          290          295          300
128 Leu Arg Glu Ala Gly Phe Thr Val Glu Asp Val Ser Val Pro Trp His
129 305          310          315          320
132 Leu His Ala Thr Ala Ile Trp Asp Val Leu Ala Thr Glu Gly Gly Leu
133          325          330          335
136 Trp Gln Met Val Glu Gly Asn Ala Tyr Gly Met His Trp Lys Gly His
137          340          345          350
140 Tyr Asp Pro Ser Leu Ile Ala Tyr Tyr Gly Arg Lys Trp Arg Glu Asp
141          355          360          365
144 Pro Ala Gln Phe Ser Glu Thr Val Lys Leu Val Ala Leu Ala Gly Arg
145          370          375          380
148 Tyr Ala Leu Thr Thr Gln Tyr Gly Arg His Tyr Ala Met Ala Arg Asn
149 385          390          395          400
152 Leu Ala Pro Lys Leu Val Ala Ala Tyr Asp Ala Ala Leu Ser Asn Tyr
153          405          410          415
156 Asp Val Leu Val Met Pro Thr Leu Pro Met Arg Ala Thr Val Leu Pro
157          420          425          430
160 Gly Pro Asp Ala Pro Val Glu Glu Ile Leu Ala Arg Gly Leu Glu Met
161          435          440          445
164 Leu Ala Asn Thr Ala Pro Phe Asp Val Thr Gly His Pro Ala Cys Ser
165          450          455          460

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168 Val Pro Ala Gly Leu Ala Asp Gly Leu Pro Val Gly Leu Met Ile Val
169 465                               470                               475                               480
172 Gly Lys His Phe Asp Asp Ala Thr Val Leu Lys Val Ala Asn Ala Phe
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177                               500                               505
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181 <211> LENGTH: 1527
182 <212> TYPE: DNA
183 <213> ORGANISM: Pseudonocardia thermophila
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190 gtggaacaag gtcgaagagc tgtacgcgga ggtggccccc accccgccgc agcgctcgtg      180
192 gacccgcccc gacgccgagg acgacaagct cggcgcggtg gcggtgcaga cctcgatcac      240
194 cgaaacctcg gaggggccgc tcgccggccg caccggtcgc gtcaggacaa cgtcgccgtc      300
196 gccggcggtg cgatgatgaa cggatcgccg accctggagg gcttcgtccc cgccgaggac      360
198 gccaccgtcg tgtcccggct gctcgccgcc ggcgcgacca tcgccggcaa gtcggtgtgc      420
200 gaggacctgt gcttctccgg cggctcgcac accagcaagc cgggaaccgt gcacaaccgc      480
202 tgggacatga gccgctcgcc ggggtggttc tcgagcggta gcggggcgct ggtggccgcc      540
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206 tactgcggca ccgtcgggca caagccgacc caccgcctgg tgcgtacac cggaggcttc      660
208 ccgatcgagc agtcgatcga ccacctcgcc ccgatcacc gcaccgtcgc cgacgccgcg      720
210 ctcatgctgt cggtgatcgc cggccgcgac gggctcgacc cgcgccagcc cgacgtcgtc      780
212 gagggtgcagg actacgtcgg cgcgctggcc gagtcggtga gcgggctgcg catcggcgtc      840
214 ctgcaggagg gcttcggtca ccccaactcc gagcccgagg tcgacgacac cgtgcgcgct      900
216 gctgtcggga cactgcgcga ggccggcttc accgtcgagg acgtctcggt cccgtggcac      960
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220 gaggggcaacg cctacggcat gcaactggaag ggccactacg acccgctcgt catcgccctac     1080
222 tacgggcgca agtggcgagg ggaaccggcg cagttctccg agacggtcaa gctcgtcgcc     1140
224 ctgcgccggc gctacgcgct caccgcccag tacgggcgcc actacgcgat ggcgcgcaac     1200
226 ctgcccccga agctggtcgc ggcctacgac gcggcgctgt cgaactacga cgtgctcgtc     1260
228 atgccgacgc tgccgatgcy cgcaccgtg ctgcccggcc cggacgcgcc cgtcgaggag     1320
230 atcctcgcca ggggcctgga gatgctggcc aacaccgcac cgttcgacgt caccgggcac     1380
232 ccggcctgct ctgtcccggc cggcctcgcc gacggtctcc cggtcggcct gatgatcgtc     1440
234 ggcaagcact tcgacgacgc caccgtgctg aagggtggcg acgccttcga acaggccgtc     1500
236 gccggcttcc cgacccccgc tgccctga

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**VERIFICATION SUMMARY**

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date